

BETAMETHASONE DIPROPIONATE GEL 0.05% (AUGMENTED) - betamethasone dipropionate gel
E. FOUGERA & CO. A division of Nycomed US Inc.

*** Vehicle augments the penetration of the steroid.**

FOR DERMATOLOGICAL USE ONLY

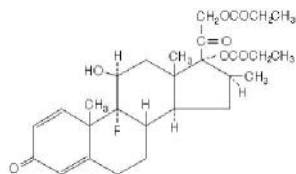
NOT FOR OPHTHALMIC USE

Rx only

DESCRIPTION

Betamethasone dipropionate gel (augmented) contains betamethasone dipropionate, USP, a synthetic fluorinated corticosteroid for topical dermatologic use. Betamethasone dipropionate is included in a class of compounds consisting primarily of synthetic corticosteroids for use topically as anti-inflammatory and anti-pruritic agents.

Chemically, betamethasone dipropionate is 9-fluoro-11 β ,17,21-trihydroxy-16 β -methylpregna-1,4-diene-3,20-dione 17,21-dipropionate, with the molecular formula $C_{28}H_{37}FO_7$, a molecular weight of 504.6, and the following structural formula:



Betamethasone dipropionate is a white to creamy white, odorless crystalline powder, insoluble in water.

Each gram of betamethasone dipropionate gel (augmented) contains: 0.64 mg betamethasone dipropionate, USP (equivalent to 0.5 mg betamethasone), in an augmented gel base of purified water, propylene glycol, carbomer 940, and sodium hydroxide.

CLINICAL PHARMACOLOGY

Like other topical corticosteroids, betamethasone dipropionate has anti-inflammatory, anti-pruritic, and vasoconstrictive properties. The mechanism of the anti-inflammatory activity of the topical steroids, in general, is unclear. However, corticosteroids are thought to act by the induction of phospholipase A_2 inhibitory proteins, collectively called lipocortins. It is postulated that these proteins control the biosynthesis of potent mediators of inflammation, such as prostaglandins and leukotrienes, by inhibiting the release of their common pre-cursor, arachidonic acid. Arachidonic acid is released from membrane phospholipids by phospholipase A_2 .

Pharmacokinetics: The extent of percutaneous absorption of topical corticosteroids is determined by many factors including the vehicle and the integrity of the epidermal barrier. Occlusive dressings with hydrocortisone for up to 24 hours have not been demonstrated to increase penetration; however, occlusion of hydrocortisone for 96 hours markedly enhances penetration. Topical corticosteroids can be absorbed from normal intact skin. In addition, inflammation and/or other disease processes in the skin may increase percutaneous absorption. Studies performed with betamethasone dipropionate gel (augmented) indicate that it is in the super-high range of potency as compared with other topical corticosteroids.

INDICATIONS AND USAGE

Betamethasone dipropionate gel (augmented) is a super-high potency corticosteroid indicated for the relief of the inflammatory and pruritic manifestations of corticosteroid-responsive dermatoses. Treatment beyond two consecutive weeks is not recommended, and the total dose should not exceed 50 g per week because of potential for the drug to suppress the hypothalamic-pituitary-adrenal (HPA) axis.

This product is not recommended for use in pediatric patients under 12 years of age.

CONTRAINDICATIONS

Betamethasone dipropionate gel (augmented) is contraindicated in those patients with a history of hypersensitivity to any of the components of the preparation.

PRECAUTIONS

General: Betamethasone dipropionate gel (augmented) should not be used in the treatment of rosacea or perioral dermatitis, and it should not be used on the face, groin, or in the axillae.

Systemic absorption of topical corticosteroids can produce reversible hypothalamic-pituitary-adrenal (HPA) axis suppression with the potential for gluco-corticosteroid insufficiency after withdrawal of treatment. Manifestations of Cushing's syndrome, hyperglycemia, and glucosuria can also be produced in some patients by systemic absorption of topical corticosteroids while on treatment.

At 7 g per day (applied once daily or as 3.5 g twice daily), betamethasone dipropionate gel (augmented) was shown to cause inhibition of the HPA axis following application for one, two or three weeks to diseased skin in some patients with psoriasis or atopic dermatitis. These effects were reversible upon discontinuation of treatment.

Patients receiving betamethasone dipropionate gel (augmented) applied to large areas should be evaluated periodically for evidence of HPA axis suppression. This may be done by using the ACTH-stimulation, morning plasma cortisol and urinary free-cortisol tests.

Patients should not be treated with betamethasone dipropionate gel (augmented) for more than 2 weeks at a time, and amounts greater than 50 g per week should not be used because of the potential for the drug to suppress the HPA axis.

If HPA axis suppression is noted, an attempt should be made to withdraw the drug, to reduce the frequency of application, or to substitute a less potent corticosteroid. Recovery of HPA axis function is generally prompt and complete upon discontinuation of topical corticosteroids. Infrequently, signs and symptoms of glucocorticosteroid insufficiency may occur, requiring supplemental systemic corticosteroids. For information on systemic supplementation, see prescribing information for systemic corticosteroids. Pediatric patients may be more susceptible to systemic toxicity from equivalent doses due to their larger skin surface to body mass ratios (see **PRECAUTIONS-Pediatric Use**).

If irritation develops, betamethasone dipropionate gel (augmented) should be discontinued and appropriate therapy instituted. Allergic contact dermatitis with corticosteroids is usually diagnosed by observing failure to heal rather than noting clinical exacerbation as with most topical products not containing corticosteroids. Such an observation should be corroborated with appropriate diagnostic patch testing.

If concomitant fungal and/or bacterial skin infections are present or develop, an appropriate antifungal or antibacterial agent should be used. If a favorable response does not occur promptly, use of betamethasone dipropionate gel (augmented) should be discontinued until the infection has been adequately controlled.

Information for Patients: Patients using topical corticosteroids should receive the following information and instructions:

1. The medication is to be used as directed by the physician. It is for external use only. Avoid contact with the eyes.
2. The medication should not be used for any disorder other than that for which it was prescribed.
3. The treated skin area should not be bandaged or otherwise covered or wrapped so as to be occlusive.
4. Patients should report to their physician any signs of local adverse reactions.

Laboratory Tests: The following tests may be helpful in evaluating patients for HPA axis suppression: ACTH-stimulation test, Morning plasma-cortisol test, Urinary free-cortisol test.

Carcinogenesis, Mutagenesis, Impairment of Fertility: Long-term animal studies have not been performed to evaluate the carcinogenic potential of betamethasone dipropionate.

Studies in rabbits, mice and rats using intramuscular doses up to 1, 33 and 2 mg/kg, respectively, resulted in dose related increases in fetal resorptions in the rabbits and mice.

Pregnancy: Teratogenic Effects: Pregnancy Category C: Corticosteroids have been shown to be teratogenic in laboratory animals when administered systemically at relatively low dosage levels. Some corticosteroids have been shown to be teratogenic after dermal application to laboratory animals.

Betamethasone dipropionate has been shown to be teratogenic in rabbits when given by the intramuscular route at doses of 0.05 mg/kg. This dose is approximately 26 times the human topical dose of betamethasone dipropionate gel (augmented) assuming human percutaneous absorption of approximately 3% and the use in a 70 kg person of 7 g per day. The abnormalities observed included umbilical hernias, cephalocele and cleft palate.

There are no adequate and well-controlled studies of the teratogenic potential of betamethasone dipropionate in pregnant women. Therefore, betamethasone dipropionate gel (augmented) should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

Nursing Mothers: Systemically administered corticosteroids appear in human milk and could suppress growth, interfere with endogenous corticosteroid production, or cause other untoward effects. It is not known whether topical administration of corticosteroids could result in sufficient systemic absorption to produce detectable quantities in human milk. Because many drugs are excreted in human milk, caution should be exercised when betamethasone dipropionate gel (augmented) is administered to a nursing woman.

Pediatric Use: Data regarding use of Betamethasone Dipropionate Gel (augmented) in pediatric patients are not available, so use of this product in patients under the age of 12 is not recommended. *Because of a higher ratio of skin surface area to body mass, pediatric patients are at a greater risk than adults of HPA axis suppression when they are treated with topical corticosteroids. They are, therefore, also at greater risk of glucocorticosteroid insufficiency after withdrawal of treatment and of Cushing's syndrome while on treatment.* Adverse effects, including striae, have been reported with inappropriate use of topical corticosteroids in infants and pediatric patients.

HPA axis suppression, Cushing's syndrome, and intracranial hypertension have been reported in pediatric patients receiving topical corticosteroids. Manifestations of adrenal suppression in pediatric patients include linear growth retardation, delayed weight gain, low plasma cortisol levels, and absence of response to ACTH stimulation. Manifestations of intracranial hypertension include bulging fontanelles, headaches, and bilateral papilledema.

Geriatric Use: Clinical studies of Betamethasone Dipropionate Gel (Augmented) included 65 subjects who were 65 years of age and over and 15 subjects who were 75 years of age and over. No overall differences in safety or effectiveness were observed between these subjects and younger subjects, and other reported clinical experience has not identified differences in responses between the elderly and younger patients. However, greater sensitivity of some older individuals cannot be ruled out.

ADVERSE REACTIONS

In controlled clinical trials, the total incidence of adverse events associated with the use of betamethasone dipropionate gel (augmented) was 10%. These included stinging or burning in 6% of patients, dry skin in 4% of patients, and pruritus in 2% of patients. Less frequently reported adverse reactions were irritation, skin atrophy, telangiectasia, erythema, cracking/tightening of the skin, follicular rash, and allergic contact dermatitis.

The following additional local adverse reactions are reported infrequently with topical corticosteroids, but may occur more frequently with super-high potency corticosteroids, such as betamethasone dipropionate gel (augmented).

These reactions are listed in approximate decreasing order of occurrence: acneiform eruptions, hypopigmentation, perioral dermatitis, secondary infection, striae and miliaria.

OVERDOSAGE

Topically applied betamethasone dipropionate gel (augmented) can be absorbed in sufficient amounts to produce systemic effects (see **PRECAUTIONS**).

DOSAGE AND ADMINISTRATION

Apply a thin layer of betamethasone dipropionate gel (augmented) to the affected skin once or twice daily and rub it in gently and completely.

Betamethasone dipropionate gel (augmented) is a super-high potency topical corticosteroid; therefore, treatment should be limited to two weeks, and amounts greater than 50 g per week should not be used.

Betamethasone dipropionate gel (augmented) should not be used with occlusive dressings.

HOW SUPPLIED

Betamethasone Dipropionate Gel, 0.05% (augmented) is supplied as follows:

NDC 0168-0266-15	15 g tube
NDC 0168-0266-50	50 g tube

Store between 2° and 25°C (36° and 77°F).

E. FOUGERA & CO.

A division of Nycomed US Inc.

MELVILLE, NEW YORK 11747

I2266A

R1/08

#194

PACKAGE LABEL – PRINCIPAL DISPLAY PANEL – 15 GRAM TUBE

NDC 0168-0266-15

Fougera

BETAMETHASONE

DIPROPIONATE GEL,

0.05% (AUGMENTED*)

(Potency expressed as betamethasone)

*Vehicle augments the penetration of the steroid.

Rx Only

FOR DERMATOLOGICAL USE ONLY

NOT FOR OPHTHALMIC USE

Each gram contains: 0.64 mg

betamethasone dipropionate, USP

(equivalent to 0.5 mg betamethasone)

in a gel base of purified water,

propylene glycol, carbomer 940 and

sodium hydroxide.

NET WT 15 grams



PACKAGE LABEL – PRINCIPAL DISPLAY PANEL – 15 GRAM CARTON

NDC 0168-0266-15

Fougera

BETAMETHASONE DIPROPIONATE

GEL, 0.05% (AUGMENTED*)

(Potency expressed as Betamethasone)

*Vehicle augments the penetration of the steroid.

Rx Only

FOR DERMATOLOGICAL USE ONLY

NOT FOR OPHTHALMIC USE

WARNING: Keep out of reach

of children.

NET WT 15 grams



PACKAGE LABEL – PRINCIPAL DISPLAY PANEL – 50 GRAM TUBE

NDC 0168-0266-50

BETAMETHASONE

DIPROPIONATE GEL,

0.05% (AUGMENTED*)

(Potency expressed as betamethasone)

*Vehicle augments the penetration of the steroid.

Rx Only

FOR DERMATOLOGICAL USE ONLY

NOT FOR OPHTHALMIC USE

Each gram contains: 0.64 mg

betamethasone dipropionate, USP

(equivalent to 0.5 mg betamethasone)

in a gel base of purified water,

propylene glycol, carbomer 940 and

sodium hydroxide.

NET WT 50 grams



PACKAGE LABEL – PRINCIPAL DISPLAY PANEL – 50 GRAM CARTON

NDC 0168-0266-50

BETAMETHASONE DIPROPIONATE

GEL, 0.05% (AUGMENTED*)

(Potency expressed as Betamethasone)

*Vehicle augments the penetration of the steroid.

Rx Only

FOR DERMATOLOGICAL USE ONLY

NOT FOR OPHTHALMIC USE

**WARNING: Keep out of reach
of children.**

NET WT 50 grams



R

See crimp of tube for Control No. and Exp. Date

IX4451A
R1.08
#204

NDC 0168-0266-50

fougera®

R only

**BETAMETHASONE DIPROPIONATE
GEL, 0.05% (AUGMENTED*)**

(Potency expressed as betamethasone)

* Vehicle augments the penetration of the steroid.

FOR DERMATOLOGIC USE ONLY
NOT FOR OPHTHALMIC USE

WARNING: Keep out of reach
of children.

NET WT 50 grams

fougera®
**BETAMETHASONE
DIPROPIONATE
GEL, 0.05%
(AUGMENTED*)**



USUAL DOSAGE: See package insert for full
prescribing information.

Store between 2° and 25°C (36° and 77°F).

IMPORTANT: The opening of this product is covered by a metal
tamper-resistant seal. If this seal has been punctured or is not
visible, do not use and return product to place of purchase.

E. FOUGERA & CO.

A division of Nycomed US Inc., Melville, New York 11747

TO OPEN: To puncture the seal,
reverse the cap and place the
puncture-top onto the tube. Push
down firmly until seal is open.

To close, screw the cap back
onto the tube.

Each gram contains: 0.64 mg
betamethasone dipropionate,
USP (equivalent to 0.5 mg
betamethasone) in a gel base
of purified water, propylene
glycol, carbomer 940 and
sodium hydroxide.

NET WT 50 grams

NDC 0168-0266-50

fougera®

R only

**BETAMETHASONE DIPROPIONATE
GEL, 0.05% (AUGMENTED*)**

(Potency expressed as betamethasone)

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